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3 a tubular elongate member having a wall, which wall has an interior surface, an
4 exterior surface, and pores therein; and
5 smooth muscle cell transduced with the gene of interest immobilized within the
6 pores and upon the interior surface of the wall to form a tubular smooth muscle cell complex
7 whereby the smooth muscle cells remain stably immobilized on the graft surface and express a
8 product of said gene.

E2

1 5. (Twice Amended) The device of claim 1, wherein the vascular smooth
2 muscle cells are transduced with a gene encoding erythropoietin.

E3

1 6. (Thrice Amended) A device of claim 1, wherein the vascular smooth
2 muscle cells are transduced with a gene encoding granulocyte colony stimulating factor or
3 granulocyte macrophage colony stimulating factor.

1 7. (Thrice Amended) A device of claim 1, wherein the vascular smooth
2 muscle cells are transduced with a gene encoding Factor IX.

1 8. (Thrice Amended) A device of claim 1, wherein the transduced vascular
2 smooth muscle cells express an anticoagulant.

E4

1 9. (Twice Amended) A device of claim 1, wherein the transduced vascular
2 smooth muscle cells are immobilized to the tubular elongate member with a polymer.

E5

1 10. (Thrice Amended) A device of claim 1, wherein the device, prior to
2 implantation in a subject, further comprises vascular endothelial cells adherent to an interior
3 surface of the tubular smooth muscle cell complex.

REMARKS

Claims 1-22 are pending in this application. Claim 1 has been amended to obviate the Examiner's objection, as more fully discussed below.